

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
PTO-1449**

Sheet 1 of 5



Application No.: 10/756,820  
Filing Date: January 13, 2004  
First Named Inventor: James M. Bettridge  
Art Unit: 3637  
Examiner Name: Unassigned  
Attorney Docket Number: 5915 P 005

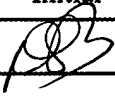
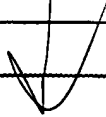
**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document No.<br>Kind Code (if known) | Name of Patentee<br>or Applicant | Publication Date<br>(MM-DD-YYYY) |
|------------------|--------------------------------------|----------------------------------|----------------------------------|
|                  | US 4,158,875                         | Tajima et al.                    | 06-19-1979                       |
|                  | US 4,261,519                         | Ester                            | 04-14-1981                       |
|                  | US 4,352,274                         | Anderson et al.                  | 10-05-1982                       |
|                  | US 4,434,625                         | Cree                             | 03-06-1984                       |
|                  | US 4,710,096                         | Erlam                            | 12-01-1987                       |
|                  | US 4,774,631                         | Okuyama et al.                   | 09-27-1988                       |
|                  | US 4,832,717                         | Peters                           | 05-23-1989                       |
|                  | US 4,851,965                         | Gabuzda et al.                   | 07-25-1989                       |
|                  | US 5,136,465                         | Benck et al.                     | 08-04-1992                       |
|                  | US 5,285,347                         | Fox et al.                       | 02-08-1994                       |
|                  | US 5,349,823                         | Solomon                          | 09-27-1994                       |
|                  | US 5,428,503                         | Matsushima et al.                | 06-27-1995                       |
|                  | US 5,460,441                         | Hastings et al.                  | 10-24-1995                       |
|                  | US 5,505,533                         | Kammersqard et al.               | 04-09-1996                       |
|                  | US 5,554,012                         | Koike                            | 08-06-1996                       |
|                  | US 5,583,746                         | Wang                             | 12-10-1996                       |
|                  | US 5,621,613                         | Haley et al.                     | 04-15-1997                       |
|                  | US 5,657,641                         | Cunningham et al.                | 08-19-1997                       |
|                  | US 5,671,805                         | St.ang.hl et al.                 | 09-30-1997                       |
|                  | US 5,684,674                         | Yin                              | 11-04-1997                       |
|                  | US 5,706,668                         | Hilpert                          | 01-13-1998                       |
|                  | US 5,718,628                         | Nakazato et al.                  | 02-17-1998                       |
|                  | US 5,731,954                         | Cheon                            | 03-24-1998                       |
|                  | US 5,757,615                         | Donahoe et al.                   | 05-26-1998                       |

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Sheet 2 of 5

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|---|--------------------------------------|----------------------------------|----------------------------------|
|    | US 5,813,243                         | Johnson et al.                   | 09-29-1998                       |
|   | US 5,823,005                         | Alexander et al.                 | 10-20-1998                       |
|   | US 5,927,094                         | Nickum                           | 07-27-1999                       |
|   | US 5,927,385                         | Yeh                              | 07-27-1999                       |
|   | US 5,931,002                         | Nagashima                        | 08-03-1999                       |
|   | US 5,949,646                         | Lee et al.                       | 09-07-1999                       |
|   | US 5,970,731                         | Hare et al.                      | 10-26-1999                       |
|   | US 5,987,890                         | Chiu et al.                      | 11-23-1999                       |
|   | US 6,011,688                         | Thornburg et al.                 | 01-04-2000                       |
|   | US 6,038,128                         | Hood, III et al.                 | 03-14-2000                       |
|   | US 6,052,282                         | Sugiyama et al.                  | 04-18-2000                       |
|   | US 6,088,225                         | Parry et al.                     | 07-11-2000                       |
|   | US 6,094,345                         | Diemunsch                        | 07-25-2000                       |
|   | US 6,108,203                         | Dittus et al.                    | 08-22-2000                       |
|   | US 6,109,039                         | Hougham et al.                   | 08-29-2000                       |
|   | US 6,118,655                         | Mecredy, III et al.              | 09-12-2000                       |
|   | US 6,141,213                         | Antonuccio et al.                | 10-31-2000                       |
|   | US 6,145,586                         | Lo                               | 11-14-2000                       |
|   | US 6,166,907                         | Chien                            | 12-26-2000                       |
|   | US 6,167,947                         | Hokanson et al.                  | 01-02-2001                       |
|   | US 6,181,556                         | Allman                           | 01-30-2001                       |
|   | US 6,186,890                         | French et al.                    | 02-13-2001                       |
|   | US 6,196,003                         | Macias et al.                    | 03-06-2001                       |
|   | US 6,198,628                         | Smith                            | 03-06-2001                       |
|   | US 6,213,194                         | Chrysler et al.                  | 04-10-2001                       |
|  | US 6,226,178                         | Broder et al.                    | 05-01-2001                       |

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|------------------|--------------------------------------|----------------------------------|----------------------------------|
| 183              | US 6,234,240                         | Cheon                            | 05-22-2001                       |
|                  | US 6,374,627                         | Schumacher et al.                | 04-23-2002                       |
|                  | US 6,385,046                         | Ta et al.                        | 05-07-2002                       |
|                  | US 6,407,916                         | Konstad                          | 06-18-2002                       |
|                  | US 6,408,630                         | Macias et al.                    | 06-25-2002                       |
|                  | US 6,412,292                         | Spinazzola et al.                | 07-02-2002                       |
|                  | US 6,462,944                         | Lin                              | 10-08-2002                       |
|                  | US 6,493,223                         | Viswanath et al.                 | 12-10-2002                       |
|                  | US 6,494,050                         | Spinazzola et al.                | 12-17-2002                       |
|                  | US 6,496,366                         | Coglitore et al.                 | 12-17-2002                       |
|                  | US 6,515,857                         | Ford et al.                      | 02-04-2003                       |
|                  | US 6,525,935                         | Casebolt                         | 02-25-2003                       |
|                  | US 6,542,361                         | Paradis                          | 04-01-2003                       |
|                  | US 6,557,357                         | Spinazzola et al.                | 05-06-2003                       |
|                  | US 6,565,428                         | Hsiao                            | 05-20-2003                       |
|                  | US 6,574,104                         | Patel et al.                     | 06-03-2003                       |
|                  | US 6,574,970                         | Spinazzola et al.                | 06-10-2003                       |
|                  | US 6,614,657                         | Searls et al.                    | 09-02-2003                       |
|                  | US 2001/0008071 A1                   | Macias et al.                    | 07-19-2001                       |
|                  | US 2001/0029163 A1                   | Spinazzola et al.                | 10-11-2001                       |
|                  | US 2002/0007643 A1                   | Spinazzola et al.                | 01-24-2002                       |
|                  | US 2002/0008961 A1                   | Amaike et al.                    | 01-24-2002                       |
|                  | US 2002/0059804 A1                   | Spinazzola et al.                | 05-23-2002                       |
|                  | US 2002/0075642 A1                   | Nagashima et al.                 | 06-20-2002                       |
|                  | US 2002/0108386 A1                   | Spinazzola et al.                | 08-15-2002                       |
|                  | US 2002/0117291 A1                   | Cheon                            | 08-29-2002                       |

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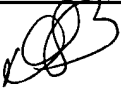
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|---------------------|--------------------------------------|----------------------------------|----------------------------------|
| EB                  | US 2002/0118514 A1                   | Coglitore et al                  | 08-29-2002                       |
|                     | US 2002/0126449 A1                   | Casebolt                         | 09-12-2002                       |
|                     | US 2002/0185262 A1                   | Baer                             | 12-12-2002                       |
|                     | US 2002/0196604 A1                   | Lehman et al.                    | 12-26-2002                       |
|                     | US 2003/0002251 A1                   | Grouell et al.                   | 01-02-2003                       |
|                     | US 2003/0002254 A1                   | Faneuf et al.                    | 01-02-2003                       |
|                     | US 2003/0011994 A1                   | Loebach                          | 01-16-2003                       |
|                     | US 2003/0043542 A1                   | Monfarad                         | 03-06-2003                       |
|                     | US 2003/0051859 A1                   | Chesser et al.                   | 03-20-2003                       |
|                     | US 2003/0051860 A1                   | Montgomery et al.                | 03-20-2003                       |
|                     | US 2003/0067745 A1                   | Patel et al.                     | 04-10-2003                       |
|                     | US 2003/0095381 A1                   | Lee et al.                       | 05-22-2003                       |
|                     | US 2003/0110779 A1                   | Otey et al.                      | 06-19-2003                       |
|                     | US 2003/0128511 A1                   | Nagashima et al.                 | 07-10-2003                       |
|                     | US 2003/0128515 A1                   | Faneuf et al.                    | 07-10-2003                       |
|                     | US 2003/0128516 A1                   | Faneuf et al.                    | 07-10-2003                       |
|                     | US 2003/0128517 A1                   | Faneuf et al.                    | 07-10-2003                       |
|                     | US 2003/0128525 A1                   | Berry et al.                     | 07-10-2003                       |
|                     | US 2003/0147214 A1                   | Patel et al.                     | 08-07-2003                       |
|                     | US 2003/0150231 A1                   | Spinazzola et al.                | 08-14-2003                       |

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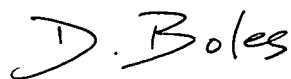
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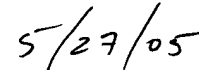
**OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initial   | (including Author (in capital letters), Title of the article,<br>Title of the item, Date, Pages, Volume-Issue number, Publisher,<br>City and/or Country where published.)  | T |
|---|--|---|
|  | SPINAZZOLA, <i>High delta cooling (HDTC, U.S. Patent 6,412,292; 6,494,050; 6,574,970; 6,557,357, other patents pending) provides increased energy efficiency and reliability for data centers</i> , 2001, 12 pages, RTKL Associates Inc., Baltimore, Maryland. |   |
|   | Liebert® Rack Cooler™, 2001, 8 pages, Liebert Corporation, Columbus, Ohio.   |   |
|   | Liebert® XDA Air Flow Enhancer, 2002, 2 pages, Liebert Corporation, Columbus, Ohio.  |   |
|   | Cooling Imperatives for Data Centers and Network Rooms, 2003, 10 pages, American Power Conversion.   |   |
|   | Managing Extreme Heat Cooling Strategies for High-Density Computer Systems, January 28, 2003, 16 pages, Liebert Corporation, Columbus, Ohio.   |   |
|   | APW internet pages, September 25, 2003, 9 pages, APW, Waukesha, Wisconsin.   |   |
|   | RTKL secures patent for method to cool computers, September 25, 2003, 2 pages, RTKL Associates Inc., Baltimore, Maryland.  |   |
|   | 1U rack mount cluster chassis servers MyriNet clustering connectivity, September 25, 2003, 2 pages, Computer & Control Solutions Inc.  |   |
|   | Who is CCSI?, September 25, 2003, 2 pages, Computer & Control Solutions Inc.   |   |
|   | CCSI's Clusteron™ Cooling Technology, September 25, 2003, 2 pages, Computer & Control Solutions Inc.   |   |
|   | Knurr internet pages, September 25, 2003, 7 pages, Knurr Inc.  |   |
|   | HPS Technologies Home Page, September 25, 2003, 2 pages, HPS Technologies Limited, New Zealand.  |   |
|   | D.L. Custom internet pages, November 25, 2003, 18 pages, D.L. Custom Ltd., Canada.   |   |

Examiner Signature:



Date Considered:



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